

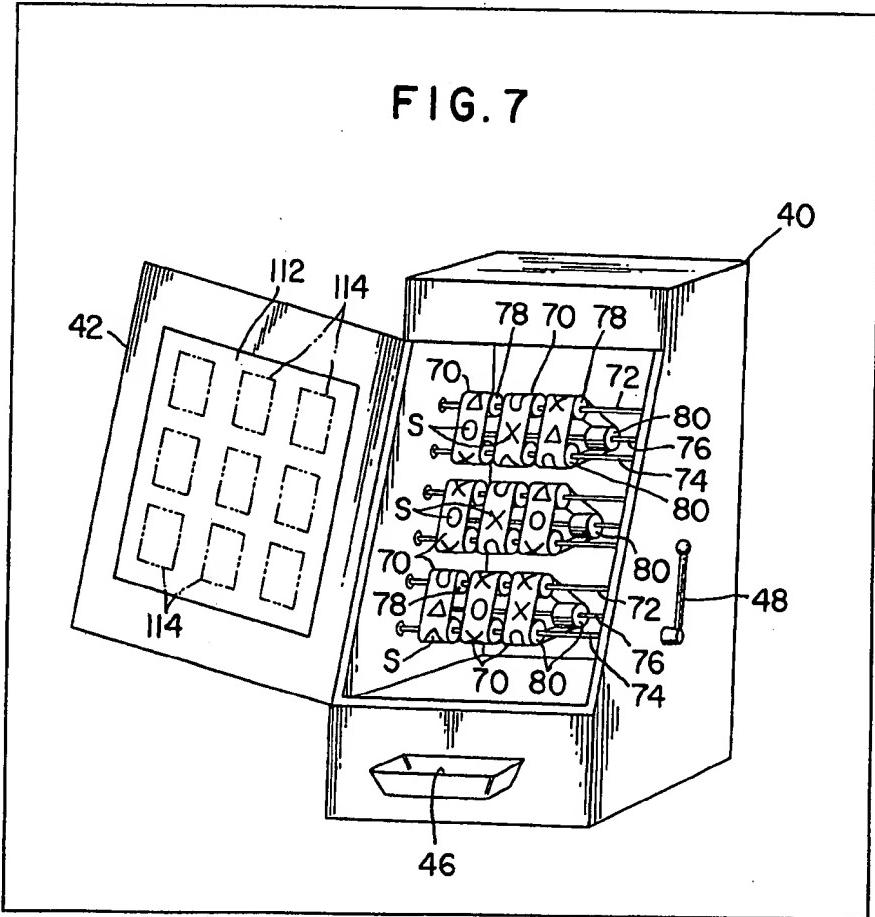
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(54) Multiline slot machine
(57) A more sophisticated version of

the known "crisscross" type of slot machine is disclosed. A screen has a plurality of display zones, usually notional, arrayed in rows and columns. A row of symbols are made to sequentially appear and randomly stop on each of the display zones, either electronically, optically, or mechanically. Thus the player can play for random symbol combinations not only along the horizontal and diagonal lines, as in the case of the crisscross model, but also along the vertical lines, of the array of display zones on the screen. If the display zones are provided in three rows and three columns, therefore, the inventive machine offers a maximum of as many as eight different symbol combinations on a single play, as compared with only five yielded by the crisscross type of machine. A representative slot machine in accordance with the invention is purely electronic, using a cathode ray tube for symbol display.

FIG. 7

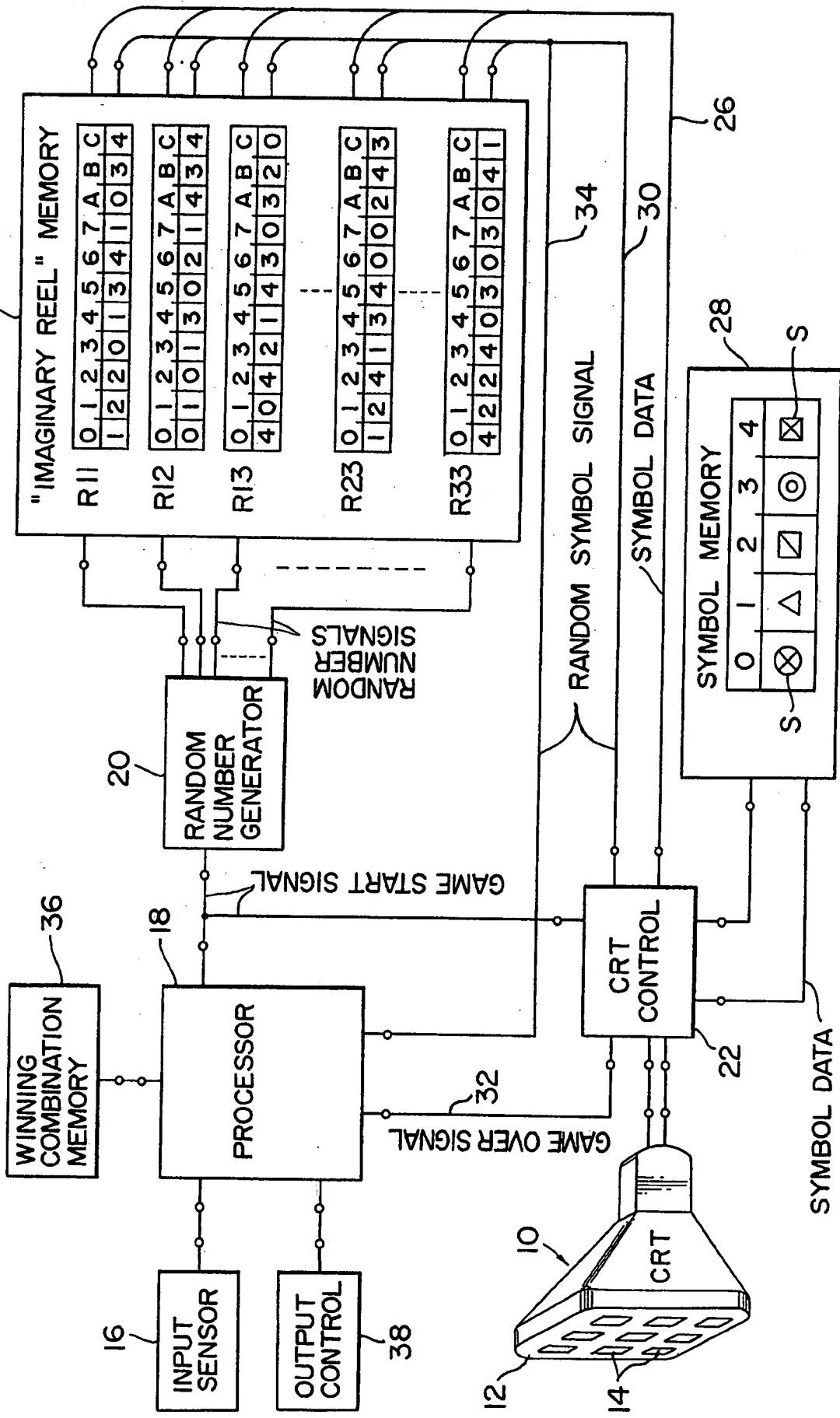


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2130413

FIG. 1

24



2130413

FIG. 2

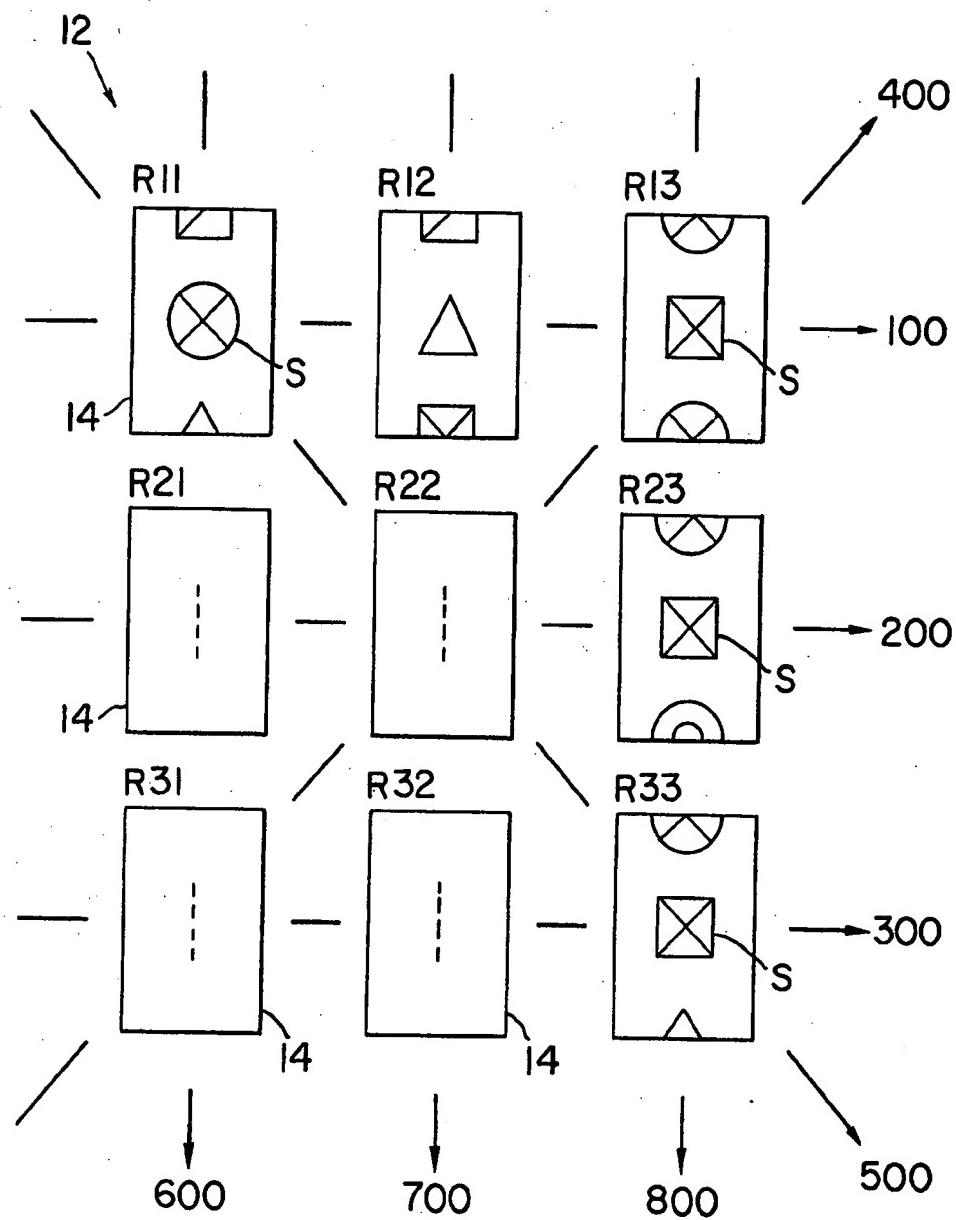
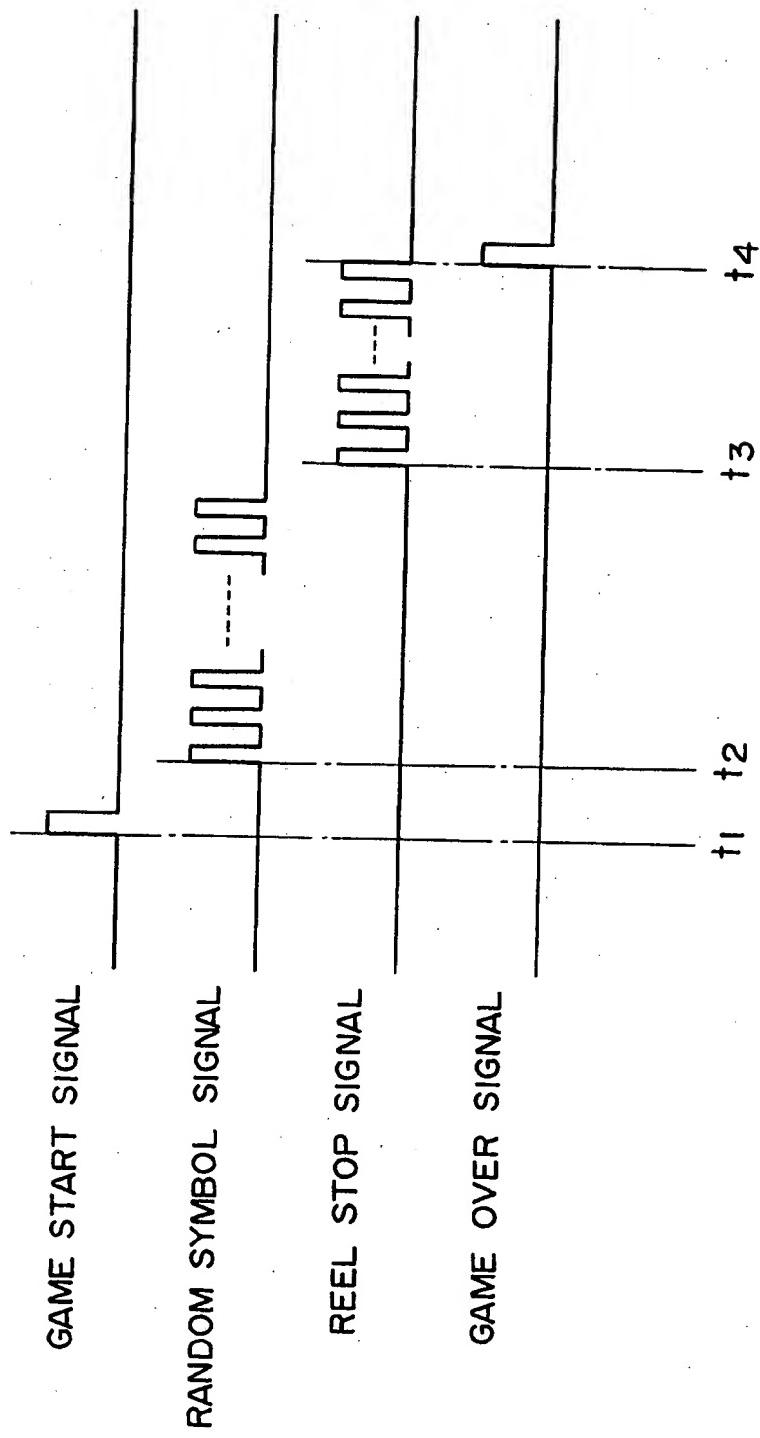


FIG. 3

PAY LINE	WINNING COMBINATION	PAYOUT RATE
100		
800	4 4 4	250

2130413

FIG. 4



2130413

FIG. 5

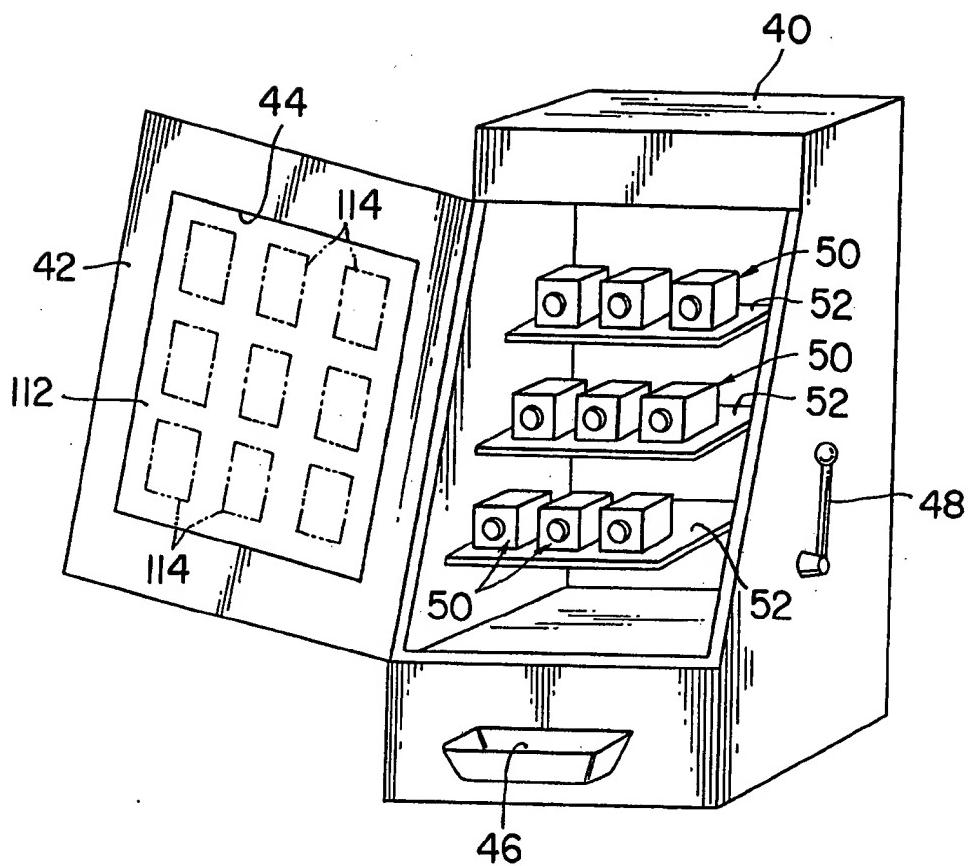


FIG. 6

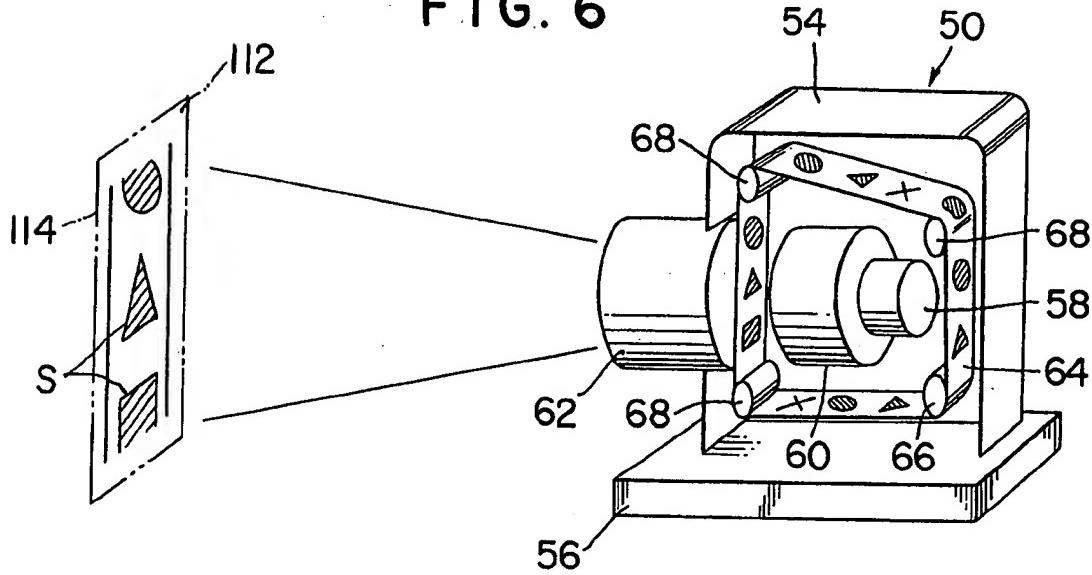
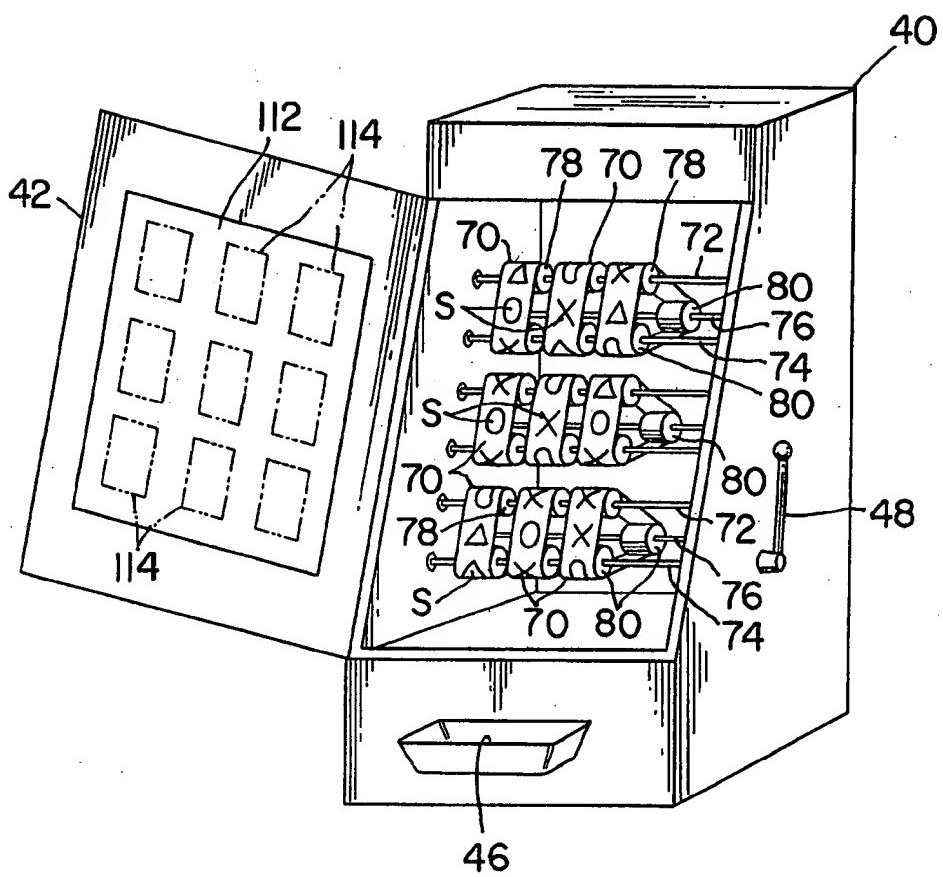


FIG. 7



SPECIFICATION

Multiline slot machine

5 Background of the Invention

This invention relates to slot machines or coin operated gaming machines for playing on random combinations of symbols such as figures, pictures or characters. More specifically the invention pertains to a novel multiline slot machine capable of providing a far greater number of playable symbol combinations per number of symbol display zones than heretofore, thereby adding to the fun and amusement of the player.

- 15 Poulsen et al. U.S. Patent 4,097,048, dated June 27, 1978, and Andersen U.S. Patent 4,138,114, dated February 6, 1979, both disclose slot machines of typical conventional design. In either case the machine comprises three reels, otherwise called drums, wheels, etc., that are mounted on a common shaft for rotation independently of each other. Each reel bears an annular row of symbols on its peripheral surface. Some symbols on each reel may be alike, but the arrangement of the symbols usually differs from reel to reel. The reels are set into rotation, as by a pull of a handle, and are made to stop in different positions. The player wins the game if a predetermined combinations of symbols appears through a window extending across the reels.
- 30 A more complex symbol display is offered by a multiline "crisscross" type of machine disclosed, for instance, in Rodesch et al. U.S. Patent 4,099,722 dated July 11, 1978. A typical "crisscross" model simultaneously displays randomly selected symbols in an array of three rows and three columns. Its display screen or window exhibits a total of five pay lines, three horizontal ones and two crossing diagonal ones. Winning and nonwinning combinations of symbols appear along all these pay lines.
- 40 For playing on such a multiline slot machine the player must deposit a coin or coins of a required denomination or denominations to choose one, some, or all of the pay lines. He wins if the symbols stop in a prescribed combination or combinations along the line or lines of his choice. The rate of payout (i.e. the ratio of payout to payin) may differ from line to line. In the event of the concurrence of two or more winning combinations along the pre-selected pay lines the machine will sum up the 50 required amounts and pay the total.

A recent breakthrough in the slot machine art is the use of a cathode ray tube (CRT) for symbol display. As heretofore constructed, the "video" slot machine has simulated the symbol display by the 55 more conventional reel type machines. The CRT screen has displayed vertical rows of symbols as if they were on revolving reels mounted on a common shaft, although, of course, the movement and random stops of the symbol rows are controlled purely electronically. Thus the conventional video slot machine has also been capable of offering only horizontal or diagonal pay lines.

As is apparent from the foregoing study of the prior art, all conventional slot machines have 65 afforded only a pay line or lines extending across the

symbol bearing reels, with diagonal lines further yielded by "crisscross" models. No device has so far been suggested which has pay lines in the direction of the symbol movement. This is only natural

- 70 because the conventional belief has been that the rows of symbols to be displayed by the slot machine must be borne by repetitive reels, either actual or imaginary, that rotate about one and the same axis. No rule exists, however, that the slot machine must be such.

The contingency or randomness of symbol combinations is the foundation stone of the slot machine. Symbol combinations across the reels, whether horizontal or diagonal, are haphazard since

- 80 the reels have different symbol arrangements and revolve and stop under different conditions. Prescribed payout rates are allotted to payout lines in such directions depending upon the probability of the occurrence of specific symbol combinations. No 85 payout is possible for predetermined symbol combinations. The conventional slot machines constructions inhibit the provision of pay lines in the direction of symbol movement because symbol arrangements in that direction are predetermined.

- 90 The foregoing will have made clear that the conventional belief that the rows of symbols must essentially revolve about a common axis has been a bar to a greater variety of random symbol combinations and, therefore, to the greater enjoyment of the 95 player.

Summary of the Invention

The present invention has an object to increase, in a multiline slot machine, the number of playable symbol combinations per number of symbols displayed statistically at one time and hence to enhance the enjoyment and excitement of the customer.

- Stated in brief, the invention provides a multi-line slot machine comprising display means having a 100 plurality of display zones arrayed in rows and columns thereon. Symbol bearing means is provided which includes a plurality of symbol groups provided one for each display zone of the display means and each having M kinds of N symbols, the M 105 ad N being both integers and the M being not more than the N. Each group of symbols are adapted to be successively displayed and randomly stopped on one display zone of the display means.

- Thus the invention is based upon the heretofore 115 unrecognized fact that the groups of symbols to be displayed by a multiline slot machine need not revolve about a common axis, or that each group of symbols need not be displayed on one column (or row) of display zones. Instead, in accordance with 120 the invention, one group of successively changeable, randomly stoppable symbols is provided for each of the arrayed display zones of the display means. This makes it possible to provide pay lines in the direction hitherto totally unthought of, that is, the direction of symbol movement, which is customarily vertical.

- As has been mentioned, the conventional "criss-cross" model having display zones arranged in three rows and three columns offers five pay lines, three 130 horizontal ones and two diagonal ones. For this type

of machine the invention provides as many as eight pay lines, by adding three vertical ones to the standard three horizontal and two diagonal ones.

A preferred embodiment of the invention employs 5 a cathode ray tube (CRT) as the display means and a memory as the symbol bearing means. The CRT has a notional array of display zones on its screen. The memory stores the groups of symbols in coded form, the readout and display as symbols on the 10 respective display zones of the CRT screen. However, the sequential display and random stoppage of symbols on the respective display zones in accordance with the invention is possible not only electronically but also optically or mechanically.

15 The above and other objects, features, and advantages of this invention and the manner of attaining them will become more apparent, and the invention itself will best be understood, from a study of the following description and appended claims taken 20 together with the attached drawings.

Brief Description of the Drawings

In the drawings:

Figure 1 is a schematic block diagram of the 25 electronic multiline slot machine embodying the principles of the present invention, the slot machine employing a CRT for symbol display;

Figure 2 is a schematic representation of the array 30 of display zones on the CRT screen of the electronic multiline slot machine of Figure 1;

Figure 3 is a table listing, by way of example, the winning symbol combinations and payout rates for the various pay lines in the slot machine of Figure 1 as stored in the winning combination memory used 35 therein;

Figure 4 is a graphic, sequential representation of various signals useful in explaining the operation of the slot machine of Figure 1;

Figure 5 is a perspective view of another preferred 40 form of the multiline slot machine in accordance with the invention, the slot machine incorporating an array of projectors for symbol display;

Figure 6 is an enlarged perspective view of one of the projectors in the slot machine of Figure 5, the 45 projector being shown with its enclosure partly removed to reveal the inner details; and

Figure 7 is a perspective view of still another preferred form of the multiline slot machine in accordance with the invention which includes an 50 array of endless belt assemblies for symbol display.

Detailed Description of the Invention

The novel concepts of this invention are shown in Figure 1 as embodied in an electronic slot machine 55 having a CRT 10 of any known or suitable design for symbol display. The CRT 10 conventionally includes a luminescent screen 12. This CRT screen has a notional array of display zones 14 each of which is provided for the display of one group of symbols 60 such as pictures, figures, or characters.

As better depicted in Figure 2, the notional display zones 14 on the CRT screen 12 are arranged in three rows and three columns in this particular embodiment. Each display zone displays its own group of 65 symbols S, which travel in a row in the direction of

the columns and come to a random stop totally independently of the other symbol groups, in accordance with the teachings of the invention. Thus the slot machine has the following eight pay lines:

- 70 1. Upper horizontal line 100.
2. Center horizontal line 200.
3. Lower horizontal line 300.
4. First diagonal line 400 (lower left to upper right).
- 75 5. Second diagonal line 500 (upper left to lower right).
6. Left vertical line 600.
8. Center vertical line 700.
8. Right vertical line 800.
- 80 The three horizontal lines 100, 200 and 300 and two diagonal lines 400 and 500 make up in combination the familiar "crisscross" arrangement of paylines. However, the three vertical lines 600, 700 and 800, extending in the direction of symbol movement, are novel and represent the concepts of this invention. It is understood that the slot machine with such multiple pay lines accepts prescribed numbers of coins to enable the player to select one, some, or all of the pay lines for each play.
- 85 90 With reference back to Figure 1 there is provided an input sensor 16 which puts out a pay line signal, indicative of a selected pay line or pay lines, corresponding to the number of coins that have been inserted in a coin slot, not shown, of the machine by the player. The pay line signal is delivered to a processor 18. After the deposit of a desired number of coins the player may proceed to manipulate a pull handle or equivalent means, not shown, whereupon the input sensor 16 activates the processor 18 to cause same to produce a game start signal.
- 95 The processor 18 is coupled to both random number generator 20 and CRT control 22 for the delivery of the game start signal thereto. The 100 random number generator 20 can be of known configuration capable of generating a set of random numbers in response to the game start signal, for the random selection of symbols for display on the CRT screen 12.
- 105 110 Connected to receive the outputs from the random number generator 20 is an imaginary reel memory 24 which can be a read only memory (ROM) available commercially as an integrated circuit device. The imaginary reel memory 24 has stored therein a plurality of "imaginary reels" R11, R12, R13, R21, R22, R23, R31, R32 and R33. As will be seen also from Figure 2, these imaginary reels correspond to the respective display zones 14 on the CRT screen 12. Since the number of display zones 14 is nine in 120 this embodiment, so is the number of imaginary reels stored in the memory 24, although Figure 1 shows only five imaginary reels R11, R12, R13, R23 and R33 for simplicity.
- 115 Each imaginary reel in the memory 24 comprises M kinds of N coded symbols, M being equal to or less than N. In this particular embodiment each imaginary reel has five kinds of coded symbols "0" through "4" stored in eleven storage locations having addresses "0" through "7" and "A" through "C" in 125 hexadecimal notation. Accordingly, in each imagin-

ary reel, each coded symbol is stored in one or two or more preassigned locations. The arrangement of the coded symbols differs, of course, from reel to reel. One coded symbol of each imaginary reel is to 5 be randomly selected by the set of random numbers delivered from the random number generator 20.

A bus connection 26 between the CRT control 22 and imaginary reel memory 24 enables the former to read out the stored information from the latter for 10 the sequential display, with the aid of a symbol memory 28, of the groups of symbols S on the respective display zones 14 of the CRT screen 12. The symbol memory 28, which can also be a commercially available ROM, has written therein the 15 five actual symbols S corresponding to the respective coded symbols "0" through "4".

Another bus connection 30 between the CRT control 22 and imaginary reel memory 24 is intended for the delivery, from the latter to the former, of a 20 random symbol signal representative of the coded symbols and their addresses that have been picked up at random by the outputs from the random number generator 20. In response to the random symbol signal from the imaginary reel memory 24 25 the CRT control 22 causes the CRT 10 to terminate the sequential display of the symbol groups for a static display of the randomly selected symbols. The CRT control 22 delivers a reel stop signal to the processor 18 by way of a bus 32 upon static 30 exhibition of the randomly selected symbols on the respective display zones 14 of the CRT screen 12.

A bus 34, branching from the bus 30, leads to the processor 18. This bus 34 directs the random symbol signal from imaginary reel memory 24 to processor 35 18.

Also connected to the processor 18 is a winning combination memory 36 which may take the form of a ROM. As tabulated in Figure 3, the winning combination memory 36 has stored therein the 40 winning combinations of symbols and payout rates for the eight pay lines 100, 200, 300, 400, 500, 600, 700 and 800 indicated in Figure 2.

The processor 18 is further coupled to an output control 38 which can be of known electromechanical 45 design capable of dispensing coins as dictated by the processor. On receipt of the pay line signal from the input sensor 16 and the random symbol signal from the imaginary reel memory 24, the processor 18 refers to the winning combination memory 36 to 50 find out any winning combination or combinations of the randomly selected symbols along the pay line or pay lines chosen by the player. In the event of a winning play the processor 18 causes the output control 38 to pay out a requisite amount of coins.

55

Operation

The operation of the above exemplified electronic slot machine will be understood by referring to the signal waveform diagram of Figure 4, in addition to 60 Figures 1 through 3. As the player deposits any of several specified amounts of coins, the input sensor 16 will deliver a corresponding pay line signal to the processor 18. Let us assume that he has payed for all 65 of the eight pay lines 100 through 800 for the convenience of description.

As the player subsequently activates the unshown handle or the like, the input sensor 16 causes the processor 18 to put out a game start signal for delivery to both the random number generator 20 70 and the CRT control 22.

Figure 4 indicates the production of the game start signal at a moment t1 in time. The CRT control 22 immediately responds to this signal and, in coaction with the imaginary reel memory 24 and symbol 75 memory 28, causes the CRT 20 to display the successive rows of symbols S on the respective display zones 14 of its screen 12. The display images travel vertically through the display zones 14, thus simulating rolling reels.

80 The random number generator 20 also responds to the game start signal to apply random number signals to the respective "imaginary reels" R11, R12, R13, R21, R22, R23, R31, R32, R33 of the imaginary reel memory 24. Then, at a second moment t2 85 following the first recited moment t1, the imaginary reel memory 24 starts producing a random symbol signal representative of a random set of coded symbols and their addresses in the imaginary reel memory 24 that have been selected, one from each 90 imaginary reel, by the random number signals. The random symbol signal enters both the processor 18 and the CRT control 22.

Let it be supposed that the set of random number signals have picked up the addresses "3", "7", "0", "5" 95 and "B" of the "imaginary reels" R11, R12, R13, R23 and R33, respectively, in the imaginary reel memory 24 of Figure 1. Then, as pictured in Figure 2, the same symbol image corresponding to the coded symbol "4" will appear in each of the right hand 100 column of display zones 14 (pay line 800). This symbol combination along the pay line 800 is a winning combination, as indicated in Figure 3, that is entitled to a payout at a rate of 250 times the payin. The processor 18 senses the winning symbol combination 105 by referring the incoming random symbol signal to the winning combination memory 36.

The sensing of the winning symbol combination by the processor 18 is completed at a third moment t3, whereupon the CRT control 22 delivery a succession of reel stop pulses to the CRT 10. The reel stop pulses are intended to stop the "rolling" of the "imaginary reels" on the CRT screen 12 one after another. Of course, when the "imaginary reels" are so stopped, the randomly selected symbols become 115 displayed centrally on the respective display zones 14 on the CRT screen 12 as shown in Figure 2. At this time, the half part of each of two symbols next to the selected symbol is also respectively displayed on the upper and lower portions of each zone 14 simultaneously with the selected symbol and in general the half symbols displayed on the respective zones 14 are different from one another. Therefore, the player can notice easily that the respective imaginary reels are independent of one another.

120 At a subsequent moment t4, when the final "imaginary reel" comes to a stop on the CRT screen 12, the CRT control 22 applies a game over signal to the processor 18. Then the processor activates the output control 38 for the dispensation of the requisite amount of coins.

Alternate Embodiment

Figures 5 and 6 illustrate another preferable form of the multiline slot machine in accordance with the invention. With reference to Figure 5 the slot machine includes a housing 40 having a front door 42 hingedly attached thereto. The front door 42 is centrally apertured at 44 to provide a display screen 112. This display screen has a notional array of 10 display zones 114 which are shown arranged in three rows and three columns by way of example. A coin drop tray 46 is provided on the front face of the housing 40, just under the door 42, for payout in the event of a winning play. On one of the side walls of 15 the housing 40 is a handle 48 to be activated by the player for placing the machine into operation after deposit of a required number of coins.

Provided within the housing 40 are a plurality of projector assemblies 50 disposed one behind each 20 display zone 114 of the screen 112. Since the display zones 114 are arranged in three rows and three columns in this embodiment, the projector assemblies 50 are arrayed correspondingly, with each row of three projector assemblies mounted on one shelf 52 25 within the housing 40.

Figure 6 illustrates one of the projector assemblies 50 in perspective and on an enlarged scale, the other projector assemblies being all identical with the one shown. The representative projector assembly 50 30 has an enclosure 54 having an enlarged bottom or base 56. The enclosure 54 accommodates a light source 58 and, in front of it, two successive lens systems 60 and 62 or equivalent means.

Passing between the two lens systems 60 and 62 35 of each projector assembly 50 is a loop of film 64 which extends around a drive roll 66 and three guide rolls 68. The drive roll 66 is operatively coupled to suitable means for longitudinally moving and randomly stopping the film 64.

Each film 64 bears M kinds of N symbols in a row 40 to be imaged by the projector 50 on one display zone 114 of the screen 112. The symbol images on the display zone 114 are indicated at S in Figure 6.

It will now be apparent that the multiline slot 45 machine of Figures 5 and 6 is very much akin to that of Figure 1 in that the groups of symbols are displayed or imaged on the respective display zones arranged in rows and columns on the screen.

In this alternative slot machine, too, the player 50 may pull the handle 48 after depositing a required quantity of coins to select one, some, or all of the eight pay lines which are assumed to be depicted on the screen 112 as in Figure 2. Pulling the handle 48 sets the drive rolls 66 of all the projector assemblies 55 50 into rotation in the same direction, with the result that the looped films 64 travel around the rolls 66 and 68. The projector assemblies 50 project the images of the film symbols on the respective display zones 114 of the screen 112, with the symbol images 60 flowing in a predetermined direction. Then the drive rolls 66 are stopped in a random fashion, by means well known in the art, to cause random combinations of symbol images to appear centrally of the respective display zones 114. For example, the drive rolls 65 66 are respectively connected to corresponding

pulse motors which are controlled by a control unit (not shown). The control unit puts out stop signals to the respective pulse motors at random.

Means for detecting winning and nonwinning

70 combinations of the randomly stopped symbols in this type of machine are also familiar to the specialists. In the event of a winning play the machine will dispense a prescribed amount of coins into the drop tray 46.

75 It will be understood that the projector assemblies 50 find use in this type of slot machine with means other than the looped films 64. An obvious alternative is a transparent disc bearing an annular row of imageable symbols. Further, as has been mentioned, 80 the discrete display zones 114 may only be notional. The screen 112 may therefore take the form of a pane of frosted glass or like piece of panel.

Second Alternate Embodiment

85 In Figure 7 is shown still another preferred form of the multiline slot machine in accordance with the invention. This embodiment employs endless belts 70 each having a row of symbols S drawn or otherwise provided thereon for direct display.

90 Like the Figures 5 and 6 embodiment this second alternate embodiment has the housing 40 with the hinged front door 42. The screen 112 fitted in this front door has the notional display zones 114 in three rows and three columns. The housing 40 is further 95 furnished with the drop tray 46 and handle 48.

Within the housing 40 there are provided three shaft groups each comprising three shafts 72, 74 and 76 extending horizontally in parallel spaced relation to each other across one row of display zones 114 of 100 the screen 112. The front, upper shaft 72 of each shaft group has three drive rolls 78 mounted thereon for rotation independently of each other. Each of the other two shafts 74 and 76 of each shaft group has three guide rolls 80 mounted thereon for independent rotation.

105 Wrapped around the respective sets of three rolls, one drive roll 78 and two guide rolls 80, are symbol bearing members in the form of endless belts 70 having M kinds of N symbols S suitably provided 110 thereon in a row. It will be seen that the symbol bearing belts 70 lie behind the respective display zones 114 of the screen 112 for direct symbol display therethrough as they extend between the two forwardly positioned rolls 78 and 80.

115 Like the looped films 64 of the Figures 5 and 6 embodiment the symbol bearing endless belts 70 are to be independently moved longitudinally by the respective drive rolls 78 for the sequential display of the rows of symbols S through the respective

120 display zones 114 of the screen 112. Then the rotation of the drive rolls 78 are arrested at random, with the result that random combinations of the symbols appear along the rows, along the columns, and diagonally of the array of display zones 114. It is 125 therefore apparent that the slot machine of Figure 7 can also provide a total of eight pay lines in these directions of the nine arrayed display zones 114. The other details of construction and operation are considered self-evident from the foregoing descrip-

130 tion of the two preceding embodiments.

As an obvious modification of the Figure 7 embodiment the length of each endless belt 70 may be increased, possibly with use of a greater number of guide rolls, for a greater variety of symbols to be borne thereby. Further, instead of the endless belts, an array of symbol bearing reels may be provided behind the respective display zones for independent rotation and random stoppage.

Additional modifications or alterations of the 10 above disclosed embodiments will readily occur to those skilled in the art within the broad teaching thereof.

CLAIMS

15

1. A multiline slot machine comprising:
 (a) display means having a plurality of display zones arrayed in rows and columns thereon; and
 (b) symbol bearing means having a plurality of symbol groups one of which is provided for each display zone of the display means, each symbol group having M kinds of N symbols, N being at least equal to M, each group of symbols being adapted to be successively displayed and randomly stopped on 20 one display zone of the display means;
 (c) whereby the slot machine can provide winning and nonwinning random combinations of the symbols along the rows, along the columns, and diagonally of the array of display zones of the 30 display means, making it possible to provide pay lines on all these directions.

2. The multiline slot machine of claim 1 wherein the display means comprises a cathode ray tube, and the symbol bearing means comprises a memory 35 having stored therein the groups of symbols in coded form.

3. A multiline slot machine comprising:
 (a) a cathode ray tube having a screen for simultaneously displaying images in a plurality of 40 display zones thereon, the display zones being arrayed in rows and columns;
 (b) an imaginary reel memory having stored therein a plurality of imaginary reels one of which is provided for each display zone on the screen of the 45 cathode ray tube, each imaginary reel having M kinds of N symbols, N being at least equal to M;
 (c) a cathode ray tube control connected between the cathode ray tube and the imaginary reel memory for causing the latter to sequentially display 50 the symbols of the imaginary reels on the respective display zones of the cathode ray tube screen; and
 (d) means for randomly selecting one symbol of each imaginary reel stored in the imaginary reel memory, the cathode ray tube control being responsive to the randomly selecting means for causing the cathode ray tube to stop the sequential display of the symbols at the randomly selected symbols;

(e) whereby the slot machine can provide winning and nonwinning combinations of the randomly 60 selected symbols along one or more of pay lines extending along the rows, along the columns, and diagonally of the array of display zones of the cathode ray tube screen.

4. The multiline slot machine of claim 3 further 65 comprising:

(a) an input sensor for selecting any one of the pay lines for a play;

(b) a winning combination memory having stored therein a winning combination of symbols

70 and a rate of payout therefor for each pay line;
 (c) an output control for effecting payout; and
 (d) a processor connected to all of the input sensor, winning combination memory, and output control, the processor being further responsive to 75 the randomly selecting means for determining whether or not the randomly selected symbols appearing along the selected pay line make up a winning combination and for correspondingly operating the output control.

80 5. A multiline slot machine comprising:
 (a) a screen having a plurality of display zones arrayed in rows and columns thereon;

(b) a plurality of projector means disposed behind the respective display zones of the screen; and

85 (c) a symbol bearing member provided for each projector means and bearing M kinds of N symbols in a row, N being at least equal to M, the row of symbols of each symbol bearing member being adapted to be successively images on one display

90 zone of the screen by the corresponding projector means and to be randomly stopped for a display of one symbol image thereon;

(d) whereby the slot machine can provide winning and nonwinning combinations of the randomly

95 stopped symbol images on the screen along the rows, along the columns, and diagonally of the array of display zones thereon, making it possible to provide pay lines in all these directions.

6. The multiline slot machine of claim 5 wherein 100 each symbol bearing member is a looped length of film.

7. A multiline slot machine comprising:
 (a) a screen having a plurality of display zones arrayed in rows and columns; and

105 (b) a plurality of movable, symbol bearing members disposed behind the respective display zones of the screen, each symbol bearing member bearing M kinds of N symbols in a row, N being at least equal to M, each symbol bearing member being adapted to

110 be moved for a sequential display of the row of symbols thereon through one display zone of the screen and to be randomly stopped for a display of one symbol therethrough;

(c) whereby the slot machine can provide winning and nonwinning combinations of the randomly 115 stopped symbols along the rows, along the columns, and diagonally of the array of display zones of the screen, making it possible to provide pay lines in all these directions.

120 8. The multiline slot machine of claim 7 wherein each symbol bearing member is in the form of an endless belt extending around a plurality of rolls.

9. A multiline slot machine substantially as herein described and as illustrated in Figures 1 to 4 of 125 the accompanying drawings.

10. A multiline slot machine substantially as herein described and as illustrated in Figures 5 and 6 of the accompanying drawings.

11. A multiline slot machine substantially as herein described in Figure 7 of the accompanying drawings.

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